

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-170. (Cancelled)

171. (Currently amended) A method for releasing hematopoietic cells or dendritic-type cells from bone marrow and other tissue sites of a patient into the blood of the patient, wherein the patient is in need of an increased number of hematopoietic cells or dendritic-type cells in the blood of the patient, comprising consisting essentially of administering to the patient an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight of less than 750,000 daltons, ~~wherein the cells are selected from the group consisting of hematopoietic cells and dendritic-type cells and the administration of the form of hyaluronic acid causes the cells to be released, from the bone marrow of the patient, and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).~~
172. (Previously presented) The method of Claim 171 wherein the amount of the form of hyaluronic acid is at least about 6 mg/kg of patient body weight.
173. (Previously presented) The method of Claim 172 wherein the amount of the form of hyaluronic acid is at least about 12 mg/kg of patient body weight.
174. (Previously presented) The method of Claim 171 where in the form of hyaluronic acid has a molecular weight of 200,000 to 300,000 daltons.
175. (Previously presented) The method of Claim 171 wherein the form of hyaluronic acid has a molecular weight of 25,000 to 100,000 daltons.

176. (Previously presented) The method of Claim 171 wherein the form of hyaluronic acid is sodium hyaluronate.
177. (Previously presented) The method of Claim 171 wherein the hematopoietic cells are mast cell progenitors.
178. (Currently amended) A method for releasing hematopoietic cells and dendritic-type cells from bone marrow and other tissue sites of a patient into the blood of the patient, wherein the patient is in need of increased hematopoietic cells and dendritic-type cells in the blood of the patient, comprising consisting essentially of administering to the patient an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight of 25,000 to 100,000 daltons, ~~wherein the cells are selected from the group consisting of hematopoietic cells and dendritic-type cells, and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).~~
179. (Previously presented) The method of Claim 178 wherein the form of hyaluronic acid is sodium hyaluronate.
180. (Previously presented) The method of Claim 178 wherein the amount of the form of hyaluronic acid is at least about 1.5 mg/kg of patient body weight.
181. (Currently amended) A method of releasing hematopoietic cells and dendritic-type cells from bone marrow and other tissues of a patient into the blood of a patient, wherein the patient is in need of increased hematopoietic cells and dendritic-type cells in the blood of the patient, comprising consisting essentially of administering to the patient a plurality of dosages comprising:
- (a) a priming dosage of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a

molecular weight less than about 750,000 daltons in an amount of less than about 3 mg/kg patient body weight, and following predetermined intervals,

- (b) one or more additional dosages of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than about 750,000 daltons in an amount of at least about 1.5 mg/kg patient body weight;

~~wherein the cells are selected from the group consisting of hematopoietic cells and dendritic-type cells, and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).~~

182. (Previously presented) The method of Claim 181 wherein the predetermined interval is a week.
183. (Previously presented) The method of Claim 181 wherein the form of hyaluronic acid in the priming dosage or the additional dosage is sodium hyaluronate.
184. (Previously presented) The method of Claim 181 wherein the form of hyaluronic acid in the priming dosage or the additional dosage has a molecular weight of about 320,000 daltons.
185. (Previously presented) The method of Claim 181 wherein the additional dosage comprises a form of hyaluronic acid in the amount of at least about 6 mg/kg patient body weight.
186. (Previously presented) The method of Claim 181 wherein the priming dosage is in the amount of 1.5 mg/kg patient body weight.
187. (Previously presented) The method of Claim 186 wherein additional dosages comprising 3mg/kg patient body weight, 6 mg/kg patient body weight, and 12 mg/kg patient body weight are administered to the patient following weekly intervals.

188. (Currently amended) A method of releasing hematopoietic cells and dendritic-type cells from bone marrow of a patient into the ~~circulation~~ circulatory system of the patient, wherein the patient is in need of increased hematopoietic cells and dendritic-type cells in the circulatory system of the patient, comprising consisting essentially of administering a dosage consisting essentially of an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof to the patient, wherein the cells are selected from the group consisting of hematopoietic cells and dendritic-type cells, and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).
189. (Previously presented) The method of Claim 188 wherein the amount of the form of hyaluronic acid is at least about 6 mg/kg of patient body weight.
190. (Previously presented) The method of Claim 189 wherein the amount of the form of hyaluronic acid is at least about 12 mg/kg of patient body weight.
191. (Previously presented) The method of Claim 188 where in the form of hyaluronic acid has a molecular weight of 200,000 to 300,000 daltons.
192. (Previously presented) The method of Claim 188 wherein the form of hyaluronic acid has a molecular weight of 25,000 to 100,000 daltons.
193. (Previously presented) The method of Claim 188 wherein the form of hyaluronic acid is sodium hyaluronate.
194. (Previously presented) The method of Claim 188 wherein the hematopoietic cells are mast cell progenitors.
195. (Currently amended) A method of transplanting stem cells into a patient in need of stem cell transplantation comprising:

- (i)(a) administering to a stem cell donor an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than about 750,000 daltons to increase the concentration of stem cells in the blood of the individual; ~~and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID),~~
 - (ii)(b) harvesting the stem cells to be transplanted from peripheral blood of the donor; and
 - (iii)(c) transplanting the harvested stem cells into the patient.
196. (Previously presented) The method of Claim 195 wherein the donor is the same as the patient.
197. (Previously presented) The method of Claim 195 wherein the donor is not the same as the patient.
198. (Cancelled).
199. (Cancelled).
200. (Cancelled).
201. (Currently amended) A method of mobilizing cells in an ex vivo organ comprising:
- (i)(a) providing an ex vivo organ that has been harvested from a patient,
 - (ii)(b) infusing a dosage consisting essentially of an mobilizing effective amount of a hyaluronic acid form selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than 750,000 daltons into the ex vivo organ.
202. (Cancelled)

203. (Currently amended) A method of treating a patient in need of an increase in the number of stem cells in peripheral blood ~~comprising~~ consisting essentially of administering to the patient an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than 750,000 daltons, wherein the form of hyaluronic acid causes stem cells to be released from bone marrow or other tissues of the patient into blood of the patient, ~~and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).~~
204. (Currently amended) A method of increasing the number of stem cells in the blood of a patient ~~comprising~~ consisting essentially of administering to the patient an effective amount of a form of hyaluronic acid selected from the group consisting of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than 750,000 daltons, ~~and further wherein the hyaluronic acid is not topically administered in combination with a non-steroidal anti-inflammatory drug (NSAID).~~
205. (Currently amended) A method of mobilizing cells prior to and during harvesting tissue to be used for organ transplantation comprising:
- (a) ~~perfusion of perfusing the~~ perfusion of tissues of an organ donor ~~prior~~ with a dosage consisting essentially of an mobilizing effective amount of hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular weight less than 750,000 daltons, wherein the ~~perfusion perfusing~~ occurs prior to harvesting of the tissue; and
- (b) harvesting the tissue to be used for organ transplantation.
206. (Currently amended) A method of mobilizing cells in ~~an individual~~ patient in need of an organ transplant comprising:

(a) infusing into the individual patient a dosage consisting of an effective amount of
hyaluronic acid and pharmaceutically acceptable salts thereof having a molecular
weight less than 750,000 daltons,

(b) harvesting the organ from a donor; and

(c) transplanting the organ into the patient,

wherein the infusing occurs prior to and during the transplantation procedure.